## **CLAIMS**

- 1. A negative electrode material for non-aqueous electrolyte secondary batteries, comprising: a carbon material having a sphericity of at least 0.8, and exhibiting an average (002) interlayer spacing  $d_{002}$  of 0.365 -
- 0.400 nm, a crystallite size in a c-axis direction Lc<sub>(002)</sub> of 1.0 3.0 nm, as measured by X-ray diffractometry, a hydrogen-to-carbon atomic ratio (H/C) of at most 0.1 as measured by elementary analysis, and an average particle size Dv<sub>50</sub> of 1 20 μm.
- 2. A negative electrode material according to claim 1, comprising a carbonization product of a vinyl resin.
  - 3. A negative electrode material according to claim1 or 2, having a bulk specific gravity of at least 0.40 and below 0.60.

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- 4. A negative electrode material according to any one of claims 1-3, having a ratio  $D_4/D_1$  of at most 3.0 between a weight-average particle size  $D_4$  and a length average particle size  $D_1$ .
- 5. A negative electrode material according to any one of clams 1-4, having a product of a specific surface area S (m²/g) and an average particle size Dv<sub>50</sub> (μm) of 3 40.
- 6. A negative electrode material according to any one of claims 1-5, exhibiting an exothermic peak temperature of at least 600°C.
  - 7. A negative electrode material according to any one of claims 1-6,

comprising a surface of the carbon material coated with 0.1 - 10 wt.% of a silicon compound.

- 8. A negative electrode material according to any one of claims 1-7, containing 0.5 5 wt.% of nitrogen.
  - 9. A process for producing a negative electrode material for non-aqueous electrolyte secondary batteries according to any one of claims 1-8, comprising; oxidizing a spherical vinyl resin obtained through suspension polymerization to oxidation at a temperature of 150 400°C in an oxidizing gas atmosphere to provide a carbon precursor and carbonizing the carbon precursor in an inert gas atmosphere.

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- 10. A negative electrode for non-aqueous electrolyte secondary
  batteries, having a layer of active substance comprising a negative electrode material according to any one of claims 1-8 and formed at a coating rate of at most 60 g/m².
- 11. A non-aqueous electrolyte secondary battery having a negativeelectrode according to claim 10.